INTERNATIONAL SEARCH REPORT

Internal application No. PCT/JP03/07071

Relevant to claim No.

OPY	SU	BN	IITT	ED	IN	IDS

A. CLASSIFICATION OF SUBJECT MATTER Int.C1⁷ C12N15/09, C12N5/16, C07K16/08, A01K67/027

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ Cl2N15/09, Cl2N5/16, C07K16/08, A01K67/027

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) BIOSIS/WPIDS/MEDLINE(STN), JSTPlus(STN)

Citation of document, with indication, where appropriate, of the relevant passages

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, or the relevant passages	recevant to claim ito.
XA	Satoi J. et al., Genetic immunization of wild- type and hepatitis C virus transgenic mice reveals a hierarchy of cellular immune response and tolerance induction against hepatitis C virus structural proteins. J. Virol., (2001), Vol.75, No.24, pages 12121 to 12127	12,15,16 1-11,13,14, 17-19
XA	Blissard GW. et al., Location, sequence, transcriptional mapping, and temporal expression of the gp64 envelope glycoprotein gene of the Orgyia pseudotsugata multicapsid nuclear polyhedrosis virus., Virology., (1989), Vol.170, No.2, pages 537 to 555	12-18 1-11,19
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×	Further documents are listed in the continuation of Box C.		See patent family annex.	
Special categories of cited documents: And document defining the general state of the art which is not considered to be of particular relevance est antice of the art which is not considered to be of particular relevance est antice document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) Comment referring to an oral disclosure, use, exhibition or other means Comment published prior to the international filing date but later than the priority date claimed.		"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is daten alone """ document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&c" document member of the same patent family		
	of the actual completion of the international search 08 July, 2003 (08.07.03) c and mailing address of the ISA/		of mailing of the international search report 22 July, 2003 (22.07.03)	
	Japanese Patent Office			

Form PCT/ISA/210 (second sheet) (July 1998)

INTERN. NAL SEARCH REPORT

national application No.
PCT/JP03/07071

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category* Relevant to claim No. Liang R. et al., Human intestinal H+/peptide cotransporter. Cloning, functional expression, 1-19 and chromosomal localization., J.Biol.Chem., (1995), Vol.270, No.12, pages 6456 to 6463

INTERNATIONAL SEARCH REPORT

Internal application No.
PCT/JP03/07071

Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
The matter common to claims 1 to 19 resides in a transgenic nonhuman animal having a gene encoding a virus-origin membrane protein transferred therein. However, a transgenic mouse having a gene encoding a virus-origin membrane protein transferred therein was already publicly known on the priority date of the present case (Satoi J., et al., J. Virol. (2001), Vol.75, No.24, p.12121-12127). Therefore, this common matter falls within the category of prior art and thus cannot be considered as a special technical matter in the meaning as described in PCT Rule 13.2.
As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
 As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is
restricted to the invention first mentioned in the claims; it is covered by claims Nos.
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.